

### **ABSTRACT OF THE DISCLOSURE**

The present invention relates to a fuel cell system and a method of operating same, The fuel cell has a first reactant inlet, a first reactant outlet, a second reactant inlet, a second reactant outlet. The invention involves (a) providing a first reactant incoming stream to the first reactant inlet; (b) 5 providing a second reactant incoming stream to the second reactant inlet; (c) monitoring a fuel cell state variable indicative of flooding; (d) based on the fuel cell state variable, determining whether the fuel cell is flooded; and, (e) providing an additional amount of the first reactant to the fuel cell when the fuel cell is flooded.